IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Edgar Bolinth et al.
Appl. No.: PCT/DE03/00830
Title: ADAPTIVE MODULATION AND OTHER EXTENSIONS OF THE PHYSICAL LAYER IN MULTIPLE ACCESS SYSTEMS
Docket No.: 112740-973

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 37 C.F.R. 1.97, and 37 C.F.R. 1.98, Applicants request that a citation and examination of the references cited below, and on the attached PTO-1449 form, copies of which are enclosed, be made during the course of examination of the above-identified application for United States patent.

U.S. PATENT DOCUMENTS

Document No.	Date	Inventor
6,359,934 B1	March 19, 2002	Yoshida

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country
DE 100 46 655 A1	June 21, 2001	Germany
EP 1 187 413 A1	March 13, 2002	European

OTHER DOCUMENTS

Information Technology Telecommunications and Information Exchange between Systems Local and Metropolitan Area Networks Specific Requirements, Part 11, Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications, Chapter 9, 1999, pages 70-79

Drabu Yasir: A survey of QoS Techniques in 802.11. January 1999, pages 1-11

AT&T et al.: IEEE 802.11 QoS MAC Enhancements Joint Proposal Passage, IEEE 802.11 May 2000, pages 1-50

Appl. No. PCT/DE03/00⬤ ⬤TG5 Rec'd PCT/PTO 2 8 SEP 2004

10/510529

Jim Mollenauer et al.: Polling based PCF For Strom QoS Guarantees, IEEE 802.11-00/061, May 2000, pages 1-22

Barreto A.N., Furrer S.: Adaptive bit loading for wireless OFDM systems, Personal, Indoor and Mobile Radio Communications, 2001, 12th IEEE International Symposium, Sept/Oct 2001, San Diego Vol. 2,
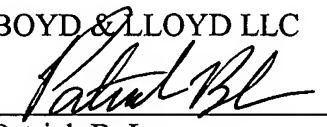
German DE 100 46 655 A1 relates to an adaptable power regulation which involves predicting future baseband signal attenuation, and signaling transmitters and receivers to reconfigure transmission rate based on predicted attenuation.

Applicants look forward to early and favorable consideration of this matter.

Respectfully submitted,

BELL, BOYD & LLOYD LLC

BY _____

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Dated: September 28, 2004

<table>
<tr><td rowspan="5">INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(Use several sheets if necessary)

PTO Form 1449</td><td colspan="2">Atty Docket No.
112740-973</td><td colspan="2">Application No.
PCT/DE03/00830</td></tr>
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INFORMATION DISCLOSURE CITATION **IN AN APPLICATION** (Use several sheets if necessary) PTO Form 1449	Atty Docket No. 112740-973 · Application No. PCT/DE03/00830 Applicant: Bolinth et al. Filing Date · Group

U.S. PATENT DOCUMENTS

Examiner's Initials		Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriate
		6,359,934 B1	March 19, 2002	Yoshida			

FOREIGN PATENT DOCUMENTS

Examiner's Initials		Document Number	Publication Date	Country	Class	Subclass	Translation Yes	No
		DE 100 46 655 A1	June 21, 2001	Germany				
		EP 1 187 413 A1	March 13, 2002	European				

Examiner's Initials		OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*
		Information Technology Telecommunications and Information Exchange between Systems Local and Metropolitan Area Networks Specific Requirements, Part 11, Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications, Chapter 9, 1999, pages 70-79
		Drabu Yasir: A survey of QoS Techniques in 802.11. January 1999, pages 1-11
		AT&T et al.: IEEE 802.11 QoS MAC Enhancements Joint Proposal Passage, IEEE 802.11 May 2000, pages 1-50
		Jim Mollenauer et al.: Polling based PCF For Strom QoS Guarantees, IEEE 802.11-00/061, May 2000, pages 1-22
		Barreto A.N., Furrer S.: Adaptive bit loading for wireless OFDM systems, Personal, Indoor and Mobile Radio Communications, 2001, 12th IEEE International Symposium, Sept/Oct 2001, San Diego Vol. 2,

Examiner:	Date Considered:

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.